

DATE: Wednesday, October 29, 2003 [Printable Copy](#) [Create Case](#)

Set Name Query

side by side

Hit Count Set Name

result set

DB=; PLUR=YES; OP=ADJ

<u>L6</u>	'alpha d' same (antibod\$) and (antibod\$) same (inhibit\$ or suppress\$ or block\$ or modulat\$) same (tnf\$ or tumor adj necrosis or tumour adj necrosis)	6	<u>L6</u>
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<u>L5</u>	'alpha d' same (inhibit\$ or suppress\$ or block\$ or modulat\$) same (tnf\$ or tumor adj necrosis or tumour adj necrosis)	12	<u>L5</u>
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<u>L4</u>	'alpha d' and (tnf\$ or tumor adj necrosis or tumour adj necrosis)	631	<u>L4</u>
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<u>L3</u>	L1 and 'alpha d'	16	<u>L3</u>
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DB=USPT,PGPB; PLUR=YES; OP=ADJ

<u>L2</u>	L1 and alphad	1	<u>L2</u>
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<u>L1</u>	gallatin.in.	73	<u>L1</u>
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END OF SEARCH HISTORY

WEST**End of Result Set**☐

L3: Entry 1 of 1

File: USPT

Jun 26, 2001

US-PAT-NO: 6251395

DOCUMENT-IDENTIFIER: US 6251395 B1

**** See image for Certificate of Correction ****

TITLE: Methods of inhibiting inflammation at the site of a central nervous system injury with alphaD-specific antibodies

DATE-ISSUED: June 26, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Gallatin; W. Michael	Mercer Island	WA	98040	
Van der Vieren; Monica	Seattle	WA	98107	

US-CL-CURRENT: 424/144.1; 424/130.1, 424/141.1, 424/143.1, 424/153.1, 424/154.1, 424/173.1, 530/387.1, 530/388.1, 530/388.2, 530/388.22, 530/388.7, 530/388.73, 530/388.75

CLAIMS:

What is claimed is:

1. A method for inhibiting macrophage infiltration at the site of a central nervous system injury comprising the step of administering to an individual an effective amount of an anti-.alpha..sub.d monoclonal antibody.
2. The method according to claim 1 wherein the anti-.alpha..sub.d monoclonal antibody blocks binding between .alpha..sub.d and a binding partner.
3. The method according to claim 2 wherein the binding partner is VCAM-1.
4. The method according to claim 1 where the anti-.alpha..sub.d monoclonal antibody is selected from the group consisting of the monoclonal antibody secreted by hybridoma 226H (ATCC Accession No: HB-12592) and the monoclonal antibody secreted by hybridoma 236L (ATCC Accession No: HB-12593).
5. The method according to any one of claims 1 through 4 wherein the central nervous system injury is a spinal cord injury.
6. A method for reducing inflammation at the site of a central nervous system injury comprising the step of administering to an individual an effective amount of an anti-.alpha..sub.d monoclonal antibody.
7. The method according to claim 6 wherein the anti-.alpha..sub.d monoclonal antibody blocks binding between .alpha..sub.d and a binding partner.
8. The method according to claim 7 wherein the binding partner is VCAM-1.
9. The method according to claim 6 where the anti-.alpha..sub.d monoclonal antibody is selected from the group consisting of the monoclonal antibody secreted by hybridoma 226H (ATCC Accession No: HB-12592) and the monoclonal antibody secreted by hybridoma 236L (ATCC Accession No: HB-12593).

WEST☐ Generate Collection☐ Print

L2: Entry 2 of 14

File: USPT

Aug 13, 2002

US-PAT-NO: 6432404

DOCUMENT-IDENTIFIER: US 6432404 B1

TITLE: Methods of inhibiting locomotor damage following spinal cord injury with
.alpha. D-specific antibodies

DATE-ISSUED: August 13, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Gallatin; W. Michael	Mercer Island	WA		
Van der Vieren; Monica	Snohomish	WA		

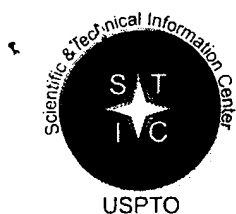
US-CL-CURRENT: 424/144.1; 424/130.1, 424/141.1, 424/143.1, 424/153.1, 424/154.1,
424/173.1, 530/387.1, 530/388.1, 530/388.2, 530/388.22, 530/388.7, 530/388.73,
530/388.75

CLAIMS:

What is claimed is:

1. A method for promoting locomotor recovery following spinal cord injury comprising the step of administering to a spinal cord injury victim an effective amount of an anti-.alpha..sub.d monoclonal antibody.
2. A method for inhibiting locomotor damage following spinal cord injury comprising the step of administering to a spinal cord injury victim an effective amount of an anti-.alpha..sub.d monoclonal antibody.
3. A method of limiting locomotor impairment following spinal cord injury comprising the step of administering to a spinal cord injury victim an effective amount of an anti-.alpha..sub.d monoclonal antibody.
4. A method of limiting autonomic and sensory dysfunction following spinal cord injury comprising the step of administering to a spinal cord injury victim an effective amount of an anti-.alpha..sub.d monoclonal antibody.
5. The method of any one of claims 1, 2, 3, or 4 wherein the anti-.alpha..sub.d monoclonal antibody is secreted by a hybridoma selected from the group consisting of 217L (ATCC Accession No: HB12701) and 226H (ATCC Accession No: 12502).
6. The method of any one of claims 1, 2, 3, or 4 wherein the anti-.alpha..sub.d monoclonal antibody competes with 217L (ATCC Accession No: HB 12701) or 226H (ATCC Accession No: 12502) for binding to .alpha..sub.d.
7. The method of any one of claims 1, 2, 3, or 4 wherein the anti-.alpha..sub.d monoclonal antibody inhibits .alpha..sub.d binding to an .alpha..sub.d ligand.
8. The method according to any one of claims 1, 2, 3, or 4 wherein the spinal cord injury comprises compression to the spinal cord.
9. The method of claim 7 wherein the .alpha..sub.d ligand is selected from the group consisting of ICAM-R and VCAM-1.

10. The method according to any one of claims 6 through 9 wherein the central nervous system injury is a spinal cord injury.



STIC Search Report

Biotech-Chem Library

STIC Database Tracking Number 02-111111

TO: Phillip Gambel
Location: 8b03 / 9e12
Friday, August 29, 2003
Art Unit: 1644
Phone: 308-3997
Serial Number: 09 / 891943

From: Jan Delaval
Location: Biotech-Chem Library
CM1-1E07
Phone: 308-4498

jan.delaval@uspto.gov

Search Notes

Jan Delaval
Reference Librarian
Biotechnology & Chemical Library
CM1 1E07 - 703-308-4498
jan.delaval@uspto.gov

Delaval, Jan

102298

From: Gambel, Phillip
Sent: Tuesday, August 26, 2003 9:26 AM
To: Delaval, Jan
Subj ct: 09 / 891,943 ifw amd

jan

please perform a sequence and a sequence interference search for

ussn 09 / 891,943 (ifw amd)

SEQ ID NO: 1

SEQ ID NO: 2

thanx

phillip gambel
art unit 1644
308-3997

1644 mailbox 9e12

Jan Delaval
Reference Librarian
Biotechnology & Chemical Library
CM1 1E07 - 703-308-4498
jan.delaval@uspto.gov

Access DB# 102298**SEARCH REQUEST FORM**

Scientific and Technical Information Center

Requester's Full Name _____ Examiner # _____ Date _____
Art Unit _____ Phone Number 30 _____ Serial Number _____
Mail Box and Bldg Room Location _____ Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

Please provide a detailed statement of the search topic and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc., if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: _____

Inventors (please provide full names): _____

Earliest Priority Filing Date: _____

**For Sequence Searches Only* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.*

3

Jan Delaval
Reference Librarian
Biotechnology & Chemical Library
CM1 1E07 - 703-308-4498
jan.delaval@uspto.gov

STAFF USE ONLY

Searcher: Jan
Searcher Phone #: 4458
Searcher Location: _____
Date Submitted: 8/26/03
Date Completed: 8/29/03
Searcher Prep Time: 15
Review Time: +15

Type of Search

NA Sequence (#) ☒
AA Sequence (#) ☒
Structure (#) _____
Bibliographic _____
Citation _____
Fulltext _____
Patent Family _____
Other _____

Vendors and cost where applicable

NTS _____
Dialog _____
CompuLink _____
PDR _____
NA NTS _____
Sequence Systems ☒
NA NTS _____
Patent Systems _____

GenCore version 5.1.6
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OM nucleic - nucleic search, using BW model

Run on: August 28, 2003, 16:16:12 ; Search time 17399 Seconds

(without alignments)
8760.806 Million cell updates/sec

Title: US-09-891-943-1

Perfect score: 3726

Sequence: 1 tgaccttcgacgtgctt.....agcataatttcatacgct 3726

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 2888711 seqs, 2045481386 residues

Total number of hits satisfying chosen parameters: 5777422

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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15: em_ba:*
16: em_fun:*
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18: em_in:*
19: em_mu:*
20: em_om:*
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29: em_vl:*
30: em_hcg_hum:*
31: em_hcg_inv:*
32: em_hcg_other:*
33: em_hcg_mus:*
34: em_hcg_pin:*
35: em_hcg_rod:*
36: em_hcg_mam:*
37: em_hcg_vrt:*
38: em_sy:*
39: em_hcgo_hum:*
40: em_hcgo_mus:*
41: em_hcgo_other:*

Pred. No. is the number of results predicted by chance to have a

score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

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2	3726	100.0	3726	6 AR052342	AR052342 Sequence
3	3726	100.0	3726	6 AR055140	AR055140 Sequence
4	3726	100.0	3726	6 AR158011	AR158011 Sequence
5	3726	100.0	3726	6 AR222661	AR222661 Sequence
6	3726	100.0	3726	6 AX448965	AX448965 Sequence
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8	3726	100.0	3726	6 I13528	I13528 Sequence 1
9	3726	100.0	3726	6 I15787	I15787 Sequence 1
10	3726	100.0	3726	6 I92491	I92491 Sequence 1
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14	3699	99.3	3785	6 AR158091	AR158091 Sequence
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17	3699	99.3	3785	6 BD071022	BD071022 Novel hum
18	3699	99.3	3785	6 I92571	I92571 Sequence 98
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ALIGNMENTS

RESULT 1
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DEFINITION Sequence 1 from patent US 5817515.
ACCESSION AR044695
VERSION AR044695.1 GI:5966160
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 3726)
AUTHORS Gallatin,W.Michael, and Van der Vieren,M.
TITLE Human B2 integrin alpha subunit antibodies
JOURNAL Patent: US 5817515-A 1 06-OCT-1998;
FEATURES Location/Qualifiers

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ORIGIN	791 t		
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Best Local Similarity	100.0%;	Pred. No.0;	
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Qy	121	AGTTGGGTGATCTCGACTCTGTGTGGAGACCCCTGGAGGTGTGGCGGCACAG	180
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OM nucleic - nucleic search, using sw model

Run on: August 28, 2003, 16:12:37 ; Search time 1136 Seconds

(without alignments)
8853.967 Million cell updates/sec

Title: US-09-891-943-1

Perfect score: 3726

Sequence: 1 tgaccttcgcgcactgctt.....agcataattctatagct 3726

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 2552756 seqs, 1349719017 residues

Total number of hits satisfying chosen parameters: 5105512

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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24: /SIDSI/gcgdata/geneseq/geneseqn-emb1/NA2002.DAT.*

25: /SIDSI/gcgdata/geneseq/geneseqn-emb1/NA2003.DAT.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	3726	100.0	3726	16	AA091712
2	3726	100.0	3726	18	AA091722
3	3726	100.0	3726	19	AA091728
4	3726	100.0	3726	19	AA091728
5	3726	100.0	3726	19	AA091728
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ALIGNMENTS

RESULT 1	AA091712	standard; cDNA, 3726 BP.
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XX	28-DEC-1995	
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XX	Human beta-2 integrin alpha-d cDNA.	
KM	Beta-2 integrin alpha-d subunit; anti-inflammatory; arteriosclerosis;	
KW	inflammatory bowel disease; asthma; ss.	
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OS	Homo sapiens.	
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FT		/*tag= a
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XX		
PA	(ICOS-) ICOS CORP.	
XX		
PI	Gallatin WM, Van Der Vieren M;	

XX MPI: 1995-240603/31.
 DR P-PSDB; AAR78166.
 XX Alpha sub-unit polypeptide of human beta 2 integrin - used to
 PT identify potential antiinflammatory agents, for the treatment of
 PT graft arteriosclerosis, inflammatory bowel disease, asthma, etc.
 XX
 XX Claim 1; Page 82-87; 172pp; English.
 CC A probe based on a partial cDNA clone (given in AA091727) of canine
 CC alpha-TnI was used to screen a human spleen cDNA library to identify
 CC clone 19A2 encoding the beta-1 integrin alpha-subunit, alpha-d.
 CC The cDNA was manipulated to allow expression of recombinant alpha-d
 CC subunit in COS and CHO cells.
 XX
 SQ Sequence 3726 BP; 817 A; 1064 C; 1054 G; 791 T; 0 other;
 Query Match 100.0%; Score 3726; DB 16; Length 3726;
 Best Local Similarity 100.0%; Pred. No. 0;
 Matches 3726; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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OM nucleic - nucleic search, using SW model

Run on: August 29, 2003, 00:24:39 ; Search time 1836 Seconds
(without alignments)

4655.980 Million cell updates/sec

Title: US-09-891-943-1

Perfect score: 3726
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Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 1533700 seqs, 1147125425 residues

Total number of hits satisfying chosen parameters: 3067400

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications NA:
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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2	3726	100.0	3726	11 US-09-891-943-1	Sequence 1, Appl
3	3699	99.3	3785	9 US-09-350-259-98	Sequence 98, Appl
4	3699	99.3	3785	11 US-09-891-943-98	Sequence 98, Appl
5	3583	96.2	3956	9 US-09-350-259-97	Sequence 97, Appl
6	3583	96.2	3956	11 US-09-891-943-97	Sequence 97, Appl
7	2315.2	62.1	3803	9 US-09-350-259-52	Sequence 52, Appl
8	2315.2	62.1	3803	11 US-09-891-943-52	Sequence 52, Appl
9	2304.2	61.8	3597	9 US-09-350-259-54	Sequence 54, Appl
10	2304.2	61.8	3597	11 US-09-891-943-54	Sequence 54, Appl
11	2300.2	61.7	3528	9 US-09-350-259-36	Sequence 36, Appl
12	2300.2	61.7	3528	11 US-09-891-943-36	Sequence 36, Appl
13	2210.8	59.3	3519	9 US-09-350-259-45	Sequence 45, Appl
14	2210.8	59.3	3519	11 US-09-891-943-45	Sequence 45, Appl
15	2138	57.4	2499	9 US-09-350-259-96	Sequence 96, Appl
16	2138	57.4	2499	11 US-09-891-943-96	Sequence 96, Appl

17	1628.8	43.7	4740	10 US-09-945-265-3	Sequence 3, Appl
18	1628.8	43.7	4740	11 US-09-902-481A-2	Sequence 2, Appl
19	1628.8	43.7	4740	14 US-10-207-655-175	Sequence 175, Appl
20	937	25.1	1484	9 US-09-350-259-102	Sequence 102, App
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22	824.4	22.1	1318	9 US-09-350-259-100	Sequence 100, App
23	824.4	22.1	1318	11 US-09-891-943-100	Sequence 100, App
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28	297.6	8.0	4045	9 US-09-891-517A-37	Sequence 37, Appl
29	280.2	7.5	597	14 US-10-066-551-12	Sequence 12, Appl
30	279.2	7.5	750	14 US-10-102-806-35	Sequence 35, Appl
31	275	7.4	481	11 US-09-918-995-6255	Sequence 6255, Ap
32	268.2	7.2	670	12 US-10-002-631C-196	Sequence 196, Appl
33	256.4	6.9	5133	10 US-09-945-265-1	Sequence 1, Appl
34	193.8	5.2	3927	12 US-10-177-550-1	Sequence 1, Appl
35	130.6	3.5	2125	9 US-09-764-870-48	Sequence 48, Appl
36	130.6	3.5	2125	14 US-10-125-540-48	Sequence 48, Appl
37	130.6	3.5	4631	11 US-09-984-130-25	Sequence 25, Appl
38	130.6	3.5	4631	12 US-09-836-353A-25	Sequence 25, Appl
39	130.6	3.5	4995	11 US-09-984-130-17	Sequence 17, Appl
40	130.6	3.5	4995	12 US-09-836-353A-17	Sequence 17, Appl
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43	67.8	1.8	2100	11 US-09-866-050A-479	Sequence 479, App
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ALIGNMENTS

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US-09-350-259-1
Sequence 1, Application US/09350259
Patent No. US20020062008A-
GENERAL INFORMATION:
APPLICANT: Gallatin, Michael W.
TITLE OF INVENTION: No. US20020062008A1 Human 2
FILE REFERENCE: 2786/35004
CURRENT FILING DATE: 1999-07-08
EARLIER FILING DATE: 1999-07-08
EARLIER FILING DATE: 1998-11-16
EARLIER FILING DATE: 1998-11-16
EARLIER FILING DATE: 1993-12-23
EARLIER APPLICATION NUMBER: 08/286,889
EARLIER FILING DATE: 1994-08-05
EARLIER APPLICATION NUMBER: 08/362,652
EARLIER FILING DATE: 1994-12-21
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EARLIER FILING DATE: 1997-10-03
NUMBER OF SEQ ID NOS: 114
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 1
LENGTH: 3726
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: CDS
LOCATION: (3) .. (3485)
US-09-350-259-1

Query Match 100.0%; Score 3726; DB 9; Length 3726;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 3726; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Db 1621 TTGGGCGCCCGGAGAGACAGAGAAACCGGAGTGTCTGTAACCTGTTTACAGAGAGCTCAG 1680
QY 1681 AATCGGATCAGAGCTTCCACAGAGGAGATTGCCAGCTCCAGCTCTCCCCAGAGC 1740
Db 1681 AATCGGATCAGAGCTTCCACAGAGGAGATTGCCAGCTCTCCCCAGAGC 1740
QY 1741 TGCAGTATTTTGGGCAAGGCGCTGAGTGGGAGGTGAGAGACCTCACCCAGATGAGACTGATG 1800
Db 1741 TGCAGTATTTTGGGCAAGGCGCTGAGTGGGAGGTGAGAGACCTCACCCAGATGAGACTGATG 1800
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Db 1801 ACTGAGCGTGTGGGCGCCGAGGCGCAGGTGCTCTGCTCAGAGCTGTGCGGTGTGAAAG 1860
QY 1861 TGGGAGTGGGCTATGAAATTCAGCCCTGTGTGAGAGTGTGCCAAGGCTGTGTACCCGTTGCGG 1920
Db 1861 TGGGAGTGGGCTATGAAATTCAGCCCTGTGTGAGAGTGTGCCAAGGCTGTGTACCCGTTGCGG 1920
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QY 1981 GCTCAGTGAACCACTGATGATGCCAATGCCATCTGACGTTTGAATCTGGCAGCTGAGCC 2040
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QY 2041 CAGGTGCTGTGACTTCTGTGTGCCATTTTCAATGAAACCAAGAAACCCCATTTGACTGAA 2100
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QY 2101 GAAAAACCTGTGGACTGGGATTCATCTGTGAAACCCCTGAAGCTGCTTTTCCAGAGTTGTG 2160
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QY 2161 TGGAGATGTGTGATGAGCCCATATCTTGTGACCTTCAACTTCTCACTGTGTGAGAGAGCCCA 2220
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QY 2221 TCCCTCCGCCCAAGAACTGTGCTGTGCGGCGGTGAGCTCAAGAACTCTTCACTG 2280

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: August 28, 2003, 19:08:18 ; Search time 308 Seconds

(without alignments)
5339.589 Million cell updates/sec

Title: US-09-891-943-1

Perfect score: 3726 1 Tgaccttcgacactgtcctt.....agcataatttcataatgct 3726

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 569978 seqs, 220691566 residues

Total number of hits satisfying chosen parameters: 1139956

Minimum DB seq length: 0
Maximum DB seq length: 200000000Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

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- 4: /cgnt2_6/prodata/2/ina/6B_COMB.seq:*
- 5: /cgnt2_6/prodata/2/ina/PCTUS_COMB.seq:*
- 6: /cgnt2_6/prodata/2/ina/backfiles1.seq:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	3726	100.0	3726	1	US-08-173-497-1
2	3726	100.0	3726	1	US-08-286-889-1
3	3726	100.0	3726	1	US-08-485-618-1
4	3726	100.0	3726	1	US-08-362-652-1
5	3726	100.0	3726	1	US-08-605-672-1
6	3726	100.0	3726	2	US-08-482-293A-1
7	3726	100.0	3726	2	US-08-943-363-1
8	3726	100.0	3726	3	US-09-193-043-1
9	3726	100.0	3726	4	US-09-688-307A-1
10	3699	99.3	3785	1	US-08-485-618-98
11	3699	99.3	3785	1	US-08-605-672-98
12	3699	99.3	3785	2	US-08-482-293A-98
13	3699	99.3	3785	2	US-08-943-363-98
14	3699	99.3	3785	3	US-09-193-043-98
15	3699	99.3	3785	4	US-09-688-307A-98
16	3583	96.2	3956	1	US-08-485-618-97
17	3583	96.2	3956	1	US-08-605-672-97
18	3583	96.2	3956	2	US-08-482-293A-97
19	3583	96.2	3956	2	US-08-943-363-97
20	3583	96.2	3956	3	US-09-193-043-97
21	3583	96.2	3956	4	US-09-688-307A-97
22	2315.2	62.1	3803	1	US-08-485-618-52
23	2315.2	62.1	3803	1	US-08-362-652-52
24	2315.2	62.1	3803	1	US-08-605-672-52
25	2315.2	62.1	3803	2	US-08-482-293A-52
26	2315.2	62.1	3803	2	US-08-943-363-52
27	2315.2	62.1	3803	3	US-09-193-043-52

28	2315.2	62.1	3803	4	US-09-688-307A-52	Sequence 52, Appl
29	2304.2	61.8	3597	1	US-08-485-618-54	Sequence 54, Appl
30	2304.2	61.8	3597	1	US-08-362-652-54	Sequence 54, Appl
31	2304.2	61.8	3597	1	US-08-605-672-54	Sequence 54, Appl
32	2304.2	61.8	3597	2	US-08-482-293A-54	Sequence 54, Appl
33	2304.2	61.8	3597	2	US-08-943-363-54	Sequence 54, Appl
34	2304.2	61.8	3597	3	US-09-193-043-54	Sequence 54, Appl
35	2304.2	61.8	3597	4	US-09-688-307A-54	Sequence 54, Appl
36	2300.2	61.7	3528	1	US-08-286-889-36	Sequence 36, Appl
37	2300.2	61.7	3528	1	US-08-485-618-36	Sequence 36, Appl
38	2300.2	61.7	3528	1	US-08-362-652-36	Sequence 36, Appl
39	2300.2	61.7	3528	1	US-08-605-672-36	Sequence 36, Appl
40	2300.2	61.7	3528	2	US-08-482-293A-36	Sequence 36, Appl
41	2300.2	61.7	3528	2	US-08-943-363-36	Sequence 36, Appl
42	2300.2	61.7	3528	3	US-09-193-043-36	Sequence 36, Appl
43	2300.2	61.7	3528	4	US-09-688-307A-36	Sequence 36, Appl
44	2210.8	59.3	3519	1	US-08-286-889-45	Sequence 45, Appl
45	2210.8	59.3	3519	1	US-08-485-618-45	Sequence 45, Appl

ALIGNMENTS

RESULT 1
US-08-173-497-1
Sequence 1, Application US/08173497
Patent No. 5437958
GENERAL INFORMATION:
APPLICANT: Gallatin, W. Michael
TITLE OF INVENTION: No. 5437958el Human 2 Integrin Alpha
TITLE OF INVENTION: Subunit
NUMBER OF SEQUENCES: 29
CORRESPONDENCE ADDRESSES:
ADDRESS: Marshall, O'Toole, Gerstein, Murray & Borun
STREET: 233 S. Wacker Drive, 6300 Sears Tower
CITY: Chicago
STATE: Illinois
COUNTRY: USA
ZIP: 60606-6402
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/173,497
FILING DATE:
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: No. 5437958and, Greta E.
REGISTRATION NUMBER: 35,302
REFERENCE/DOCKET NUMBER: 27866/31363
TELECOMMUNICATION INFORMATION:
TELEPHONE: 312-474-6300
TELEFAX: 312-474-0448
TELEX: 25-3856
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 3726 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: CDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 3..3485
US-08-173-497-1
Query Match 100.0%; Score 3726; DB 1; Length 3726;
Best local similarity 100.0%; Pred. No. 0;
Matches 3726; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 241 TCCGCTTGAAGGCTGTGAACATGTCTTGGGCTGACCTTGGACGCTTCCACCAAGGCT 300
QY 301 CCGGCTCTGAGGCTGTGGCCGACCTGACAGAGTCTGTGGGGAGAACTCATCTGAA 360
Db 301 CCGGCTCTGAGGCTGTGGCCGACCTGACAGAGTCTGTGGGGAGAACTCATCTGAA 360
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Db 361 AGGATTCCTGCTCTCTGCTGAGGCTGCGGCTGGAGATCATCCAGACAGTCCCGACGCCA 420
QY 421 CGCCAGTGTCTTCCATTCAGAGATGAGACATCGTCTTCTGATTTGACGGCTTGGAGCA 480
Db 421 CGCCAGTGTCTTCCATTCAGAGATGAGACATCGTCTTCTGATTTGACGGCTTGGAGCA 480
QY 481 TTGACCAAAATGACTTTAAACAGATGAAAGGCTTTGTCAAAGCTGATGAGCACTTTG 540
Db 481 TTGACCAAAATGACTTTAAACAGATGAAAGGCTTTGTCAAAGCTGATGAGCACTTTG 540
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Db 1381 TCTGCTCGTGGATGTGGACAGGATGGGACACCGACTGATCTCTCATTTGGGGCCCCC 1440
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QY 1681 AATCGGATAGGCGCTCCGACAGGAGGAGATTTGACGCTCCCACTGCTCCGCGAGGC 1740
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Db 1801 ACCTGGCGTGGGGGCCCCGAGGTGTCTTCTGCTCAGAGATGTGCGGTGTGAAG 1860
QY 1861 TGGGGGTGGCATAGATTCAAGCCCTGTGAGAGTGGCCAAAGCTGTATCCGAGTGGG 1920
Db 1861 TGGGGGTGGCATAGATTCAAGCCCTGTGAGAGTGGCCAAAGCTGTATCCGAGTGGG 1920
QY 1921 AAGAGAACCCAGTGTCTGAGACGTGGGACCGCACCGTGTCTCACCATTCAGAAAA 1980
Db 1921 AAGAGAACCCAGTGTCTGAGACGTGGGACCGCACCGTGTCTCACCATTCAGAAAA 1980
QY 1981 GCTACGTGACACACTGATGATCATCAAGCTGTGACAGTGTGATGTGGCACTGAGCC 2040
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QY 2161 TGAAGATGTGTGAGGCCATCATTTGTGACCTGCAACTCTACTGTGAGAGAGGCCA 2220

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: August 26, 2003, 10:31:43 ; Search time 50 Seconds
(Without alignments)
2233.037 Million cell updates/sec

Title: US-09-891-943-2
Perfect score: 5987
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Scoring table: BIOSUM62
Gapop 10.0 , Gapect 0.5

Searched: 283308 seqs, 96168682 residues

Total number of hits satisfying chosen parameters: 283308

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database :
1: pir1.*
2: pir2.*
3: pir3.*
4: pir4.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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1	3818	63.8	1163	1 RWHUIC	cell surface glyco
2	3455	57.7	1153	1 RWHUIC	cell surface glyco
3	3327.5	55.6	1153	2 S00551	leukocyte surface
4	1474	24.6	1170	2 S03308	cell surface glyco
5	1457.5	24.3	1163	2 T56126	lymphocyte function
6	1148	19.2	1179	2 A53213	integrin alpha-E c
7	1030.5	17.2	1151	2 A45226	integrin alpha-1 c
8	1030.5	17.2	1180	2 A45854	integrin alpha-1 c
9	1012	16.9	1178	2 S44142	VLA-2 protein homo
10	1007.5	16.8	1170	2 T45914	integrin alpha 2 s
11	1007.5	16.8	1181	2 A33998	integrin alpha 2 c
12	654.5	10.9	1038	2 S06046	integrin alpha-4 c
13	646.5	10.8	1039	2 A41131	lymphocyte-peyer's
14	638	10.7	1054	2 JC7294	alpha-1 integrin -
15	611	10.2	1041	2 T11437	integrin alpha cha
16	584.5	9.8	1035	2 T15409	integrin alpha-9 c
17	579.5	9.7	1053	2 T55534	VLA-3 alpha subuni
18	576.5	9.6	1051	2 A35761	cell surface glyco
19	555	9.3	1037	2 A60163	glycoprotein IIb -
20	552	9.2	1049	2 A27079	fibronectin recept
21	548	9.2	1039	2 A42469	integrin alpha-2b
22	547.5	9.1	1051	2 A40021	integrin alpha-3 c
23	535.5	8.9	1053	2 S44250	integrin alpha-5 c
24	534	8.9	1034	2 A36108	integrin alpha-V c
25	524.5	8.8	1394	2 A29637	position-specific
26	497	8.3	1044	2 T10050	integrin alpha-V c
27	496.5	8.3	1072	2 A38457	integrin alpha-6 c
28	493	8.2	1048	2 A27421	integrin alpha-5 c
29	492	8.2	1146	2 S40311	integrin - fruit f

30	477.5	8.0	1044	2 S16516	integrin alpha-8 c
31	473	7.9	1073	2 B36429	integrin alpha-6 c
32	464	7.8	1137	2 JC5950	integrin alpha-7 c
33	462.5	7.7	1091	2 A41543	integrin alpha-6 c
34	446.5	7.5	1045	2 S60571	integrin alpha v c
35	439	7.3	1135	2 T09433	alpha-7 integrin -
36	433.5	7.2	1115	2 T09433	integrin alpha cha
37	431.5	7.2	1115	2 T09403	integrin alpha cha
38	431.5	7.2	1226	2 S44824	FS4F2.1 protein -
39	420.5	7.0	1106	2 S38783	integrin alpha cha
40	410.5	6.9	764	2 T36916	glycoprotein IIb -
41	394	6.6	1139	2 S28277	hypothetical prote
42	322.5	5.4	272	2 A55348	integrin alpha-1 -
43	319.5	5.3	126	2 B30892	leukocyte adhesior
44	319.5	5.3	1086	2 T18523	integrin alpha cha
45	313.5	5.2	604	2 T36917	glycoprotein IIb -

ALIGNMENTS

RESULT 1

RWHUIC cell surface glycoprotein CD11c precursor - human

N.Alternate names: leukocyte adhesion receptor p150,95 alpha chain

C.Species: Homo sapiens (man)

C.Date: 31-Dec-1992 #sequence revision 31-Dec-1992 #text_change 22-Jun-1999

C.Accession: A36584; A35543; S00864

R.Cordi, A.L.; Garcia-Aguilar, J.; Springer, T.A.

J. Biol. Chem. 265, 12750-12751, 1990

A.Reference number: A36584

A.Contents: extratum

A.Accession: A36584

A.Molecule type: DNA

A.Residues: 1-1163 <COR>

A.Note: This revision to the sequence from reference A35543 includes the carboxyl end

R.Cordi, A.L.; Garcia-Aguilar, J.; Springer, T.A.

J. Biol. Chem. 265, 2782-2788, 1990

A>Title: Genomic structure of an integrin alpha subunit, the leukocyte p150,95 molec

A.Reference number: A35543; MUID:90153906; PMID:2303426

A.Accession: A35543

A.Molecule type: DNA

A.Residues: 1-834 <CO2>

A.Note: this sequence has been revised in reference A36584

R.Cordi, A.L.; Miller, L.J.; O'Connor, K.; Larson, R.S.; Springer, T.A.

EMBO J. 6, 4023-4028, 1987

A>Title: cDNA cloning and complete primary structure of the alpha subunit of a leuko

A.Reference number: S00864; MUID:88166645; PMID:3327687

A.Accession: S00864

A.Molecule type: mRNA

A.Residues: 1-755, 'L', 757-1163 <CO3>

A.Cross-references: GB:M61695; EMBL:Y00093; NID:9487829; PIDN:AAA59180.1; PID:9487830

A.Note: Part of this sequence was confirmed by protein sequencing

C.Comment: A common beta chain (CD18) forms a heterodimer with CD11b to form Mac-1 or

C.Genetics:

A.Gene: GDB:ITGAX; CD11C

A.Cross-references: GDB:119758; OMIM:151510

A.Map position: 16p11.2-16p11.2

C.Superfamily: cell surface glycoprotein CD11b; von Willebrand factor type A repeat f

C.Keywords: calcium; cell adhesion; glycoprotein; heterodimer; magnesium; tandem repe

F:1-19/Domain: signal sequence #status predicted <SIG>

F:20-1163/Product: cell surface glycoprotein CD11c #status predicted <MAT>

F:20-1163/Domain: extracellular #status predicted <EXT>

F:149-319/Domain: von Willebrand factor type A repeat homology <VWA4>

F:1108-1133/Domain: transmembrane #status predicted <TM>

F:1134-1163/Domain: intracellular #status predicted <INT>

F:61-89,392,697,735,899,939,-050/Binding site: carbohydrate (Asn) (covalent) #status

Query Match 63.8%; Score 3818; DB 1; Length 1163;

Best Local Similarity 65.5%; Pred. No. 5,96-267;

Matches 755; Conservative 138; Mismatches 253; Indels 6; Gaps 5;

QY 1 TFGTVLLSLVSLASVHGFMNDVETPTIQEDDAGGFGQSVVFGGSRPLVVGAPLEVVAHQ 60


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Qy      61 GRIVDCAATGACQDIPLHIREAPVNMISGLTLAATNGSLLACQPIHRYGCENSYSK 120
Db      64 GGLYQCYSTACEPIGLQVPPPEAVNMSLGLSLSTSPSLLACGPIVHBCRRNYLT 123
Qy      121 GSCLLGSRWELIOTVPDAPTECPHOEMDIVFLIDSGSISQNDENQMKGFVQAVMCOFE 180
Db      124 GLCFLLGPT-QLTORLPVSRQECRQEDIVFLIDSGSISRRFAIMAFVRAVISOFO 182
Qy      181 GTDTLFALMOYSNLKIHFTTQRTSPSQSLVDPVLOLKGTLFTATGILLTVVTOLEFH 240
Db      183 RPTQFSLMGSNKFQHTFTFEERFRRTSNPLSLAYHQGLFTYTTALQNVHRLFHA 242
Qy      241 KNGARKSAKTLIVITDQOKKDPLEYSVPIPOEKAKGIRYAGVGHARGPAPAEELN 300
Db      243 SYGARDAATKLLIVITDQKKGDSLQKDVIPKADAAGIIRYALGVGLAFQNRNRMWELN 302
Qy      301 TISSAPPODVFKYDNPFAALGSIQKLOEKIYAEVGTQSRASSSFQHEMSQEGFTALTM 360
Db      303 DIASKPQSEHIFKVEDFDALMDIQNLKKEKIFALEGTETSSSFLEMAQEGFSAVFTP 362
Qy      361 DGLFLGAVGFSMSGGAFLYPPNMSPTFINNSQENVMDRDSYLYGSTELALMKGVQNLVL 420
Db      363 DGPVLAGVGSFTMSGGAFLYPPNMSPTFINNSQENVMDRDSYLYGSTELALMKGVQNLVL 422
Qy      421 GAPPYQHTGKAVITQVSRQMKKAEVLTQIGSYFGASLCSVVDSDGSDTLILGAPH 480
Db      423 GAPPYQHTGKAVITQVSRQMKKAEVLTQIGSYFGASLCSVVDSDGSDTLILGAPH 482
Qy      481 YVEOTRGQGVSVCELPFGQRYQVQOCDAVLREGQHPMGRCFALTLVGDVNEDELIVAI 540
Db      483 YVEOTRGQGVSVCELPFGQRYQVQOCDAVLREGQHPMGRCFALTLVGDVNEDELIVAI 541
Qy      541 GAPPQENRGAVIYFHQASGSGISPSHSORIASQSLSPRIQYFGQALSGQDLTODGLMD 600
Db      542 GAPPQENRGAVIYFHQASGSGISPSHSORIASQSLSPRIQYFGQALSGQDLTODGLMD 601
Qy      601 LAVGARGVLLRLSLPVLKGVNARFSPVEVAKVAVYQMEKEKPSALASGATVLTQK 660
Db      602 LAVGARGVLLRLSLPVLKGVNARFSPVEVAKVAVYQMEKEKPSALASGATVLTQK 661
Qy      661 SLDDLG--DIQSSVRFDLALDPGRLTSAIFNETKNTPLTFRKTLGLGICETLKLPLD 718
Db      662 SKNLTGRSDQSSVTLDLALDPGRLTSAIFNETKNTPLTFRKTLGLGICETLKLPLD 721
Qy      719 CVEDVSPPIILHLNFSLVREPIRPSQNLRYLVANGQDLPTASLPFEKNGQDGLCEGDL 778
Db      722 CVEDVSPPIILHLNFSLVREPIRPSQNLRYLVANGQDLPTASLPFEKNGQDGLCEGDL 781
Qy      779 GVTLSFGSLQTLVTGSSSLNLNVIATVNNAGSDSYGVTVSLYPAGLSHRRVSQAKQPHQ 838
Db      782 GVTLSFGSLQTLVTGSSSLNLNVIATVNNAGSDSYGVTVSLYPAGLSHRRVSQAKQPHQ 841
Qy      839 SALPLACETVTEDEGLRSRCSVNHPIFHEGSGNTEIVTFDVSYKATLGDPMIMRASAS 898
Db      842 RSLHLTCDAPVSGQGTWSTSCRINHLIFRGCAQITFLATFDVSKAVLGDRLLLTANVS 901
Qy      899 SENNKASSKATFQLELIPVKYAVYTMISROEESTKYINPALSDDKKKAEHRRVNNLS 958
Db      902 SENNKASSKATFQLELIPVKYAVYTMISROEESTKYINPALSDDKKKAEHRRVNNLS 961
Qy      959 QRDALISINFWVPVILNGLAVAVM-DVWMEAP-SCSLPCVSEKRPQHSDDTLQISRSPLMD 1016
Db      962 QRDALISINFWVPVILNGLAVAVM-DVWMEAP-SCSLPCVSEKRPQHSDDTLQISRSPLMD 1021
Qy      1017 CSIADCLQFRCDVPS=SVQVEELDTLTKGNLSFGVARETLQKVLVNSVAEITPDTYSQ 1076
Db      1022 CSIADCLQFRCDVPS=SVQVEELDTLTKGNLSFGVARETLQKVLVNSVAEITPDTYSQ 1081
Qy      1077 LPQGEAFRAQMEVLEDEVEYNAIPIMGSSVALLLALITATLTKLGFKKRYKEML 1136

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Db      1082 LPQGEAFRAQMEVLEDEVEYNAIPIMGSSVALLLALITATLTKLGFKKRYKEML 1141
Qy      1137 EDKPEDTATFSG 1148
Db      1142 EEANGQIAPENG 1153

RESULT 2
RMHUB
cell surface glycoprotein CD11b precursor [validated] - human
N:Alternate names: Complement receptor type 3 alpha chain; leukocyte adhesion protei
eukocyte integrin alpha chain; neutrophil adherence receptor alpha chain
C:Species: Homo sapiens (man)
C:Date: 31-Dec-1992 #sequence revision 31-Dec-1992 #text change 31-Dec-2000
R:Corbi, A.L.; Kishimoto, T.K.; Miller, L.C.; Springer, T.A.
J. Biol. Chem. 263, 12403-12411, 1998
A:title: The human leukocyte adhesion glycoprotein Mac-1 (complement receptor type 3
B.
A:Reference number: A31108; MUID:88315033; PMID:2457584
A:Accession: A31108
A:Molecule type: mRNA
A:Residues: 1-1153 <CON>
A:Cross-references: GB:J03925; NID:9187284; PID:AAA59544.; PID:9307148
A:Note: part of this sequence was confirmed by protein sequencing
R:Arnout, M.A.; Gupta, S.K.; Pierce, M.W.; Tenen, D.G.
J. Cell Biol. 106, 2153-2158, 1998
A:title: Amino acid sequence of the alpha subunit of human leukocyte adhesion recept
A:Reference number: A28915; MUID:88257215; PMID:2454931
A:Accession: A28915
A:Molecule type: mRNA
A:Residues: 1-499,501-965, 'P', 967-1153 <ARN>
A:Cross-references: GB:M18044; GB:J03270; GB:M19664; GB:X07421; NID:9186935; PIDN:AA
A:Note: The authors translated the codon TAC for residue 1129 as Thr
R:Shelley, C.S.; Arnout, M.A.
Proc. Natl. Acad. Sci. U.S.A. 88, 10525-10529, 1991
A:title: The promoter of the CD11b gene directs myeloid-specific and developmentally
A:Reference number: A41600; MUID:92273318; PMID:1683702
A:Accession: A41600
A:Molecule type: DNA
A:Residues: 1-9 <SHD>
A:Cross-references: GB:X76724; NID:9180018; PIDN:AAA58410.1; PID:9553215
R:Arnout, M.A.; Remold-O'Donnell, E.; Pierce, M.W.; Harris, P.; Tenen, D.G.
Proc. Natl. Acad. Sci. U.S.A. 85, 2776-2780, 1988
A:title: Molecular cloning of the alpha-subunit of human and guinea pig leukocyte ad
A:Reference number: A94193; MUID:88190151; PMID:2833753
A:Accession: A30892
A:Molecule type: mRNA
A:Residues: 917-1042 <AR2>
A:Cross-references: GB:M18044
R:Hickstein, D.D.; Hickey, M.C.; Ozols, J.; Baker, D.M.; Back, A.L.; Roth, G.J.
Proc. Natl. Acad. Sci. U.S.A. 86, 257-261, 1989
A:title: cDNA sequence for the alpha subunit of the human neutrophil adherence rece
A:Reference number: A32218; MUID:89098893; PMID:2563162
A:Accession: A32218
A:Molecule type: mRNA
A:Residues: 9-1153 <HIC>
A:Cross-references: GB:J04145; NID:9189066; PIDN:AAA59903.1; PID:9386975
A:Note: part of this sequence was confirmed by protein sequencing
R:Plenum, J.C.; Pahl, H.L.; Gonzalez, D.A.; Smith, T.F.; Tenen, D.G.
J. Immunol. 150, 480-490, 1993
A:title: Structural analysis of the CD11b gene and phylogenetic analysis of the alph
during evolution.
A:Reference number: A46526; MUID:93123748; PMID:8419480
A:Accession: A46526
A:Status: not compared with conceptual translation
A:Molecule type: DNA
A:Residues: 1-499,501-1153 <FLC>
A:Cross-references: GB:SS5227; NID:9263047; PIDN:AA24821.1; PID:9263049
A:Note: the last three bases of intron 13, CAG, are included in some but not all mat
A:Note: sequence extracted from NCBI backbone (NCBI:121963)
R:Pierce, M.W.; Remold-O'Donnell, E.; Todd ITI, R.F.; Arnout, M.A.

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GenCore version 5.1.6
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OM protein - protein search, using SW model

Run on: August 26, 2003, 10:24:48 ; Search time 29 Seconds

(without alignments)
1882.690 Million cell updates/sec

Title: US-09-891-943-2

Perfect score: 5987

Sequence: 1 TFGTVLLSLVSLASYHGFNLD.....DTATFGSDPSCVAPNPVPLS 1161

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 127863 seqs, 47026705 residues

Total number of hits satisfying chosen parameters: 127863

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Database : SwissProt_41.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	5987	100.0	1162	ITAD_HUMAN	Q13349 homo sapien
2	3815	63.7	1163	ITAX_HUMAN	P20702 homo sapien
3	3439.5	57.4	1152	ITAM_HUMAN	P11215 homo sapien
4	3327.5	55.6	1153	ITAM_MOUSE	P05355 mus musculu
5	1476	24.7	1170	ITAT_HUMAN	P20701 homo sapien
6	1457.5	24.3	1163	ITAT_MOUSE	P24063 mus musculu
7	1156.5	19.3	1167	ITAE_MOUSE	O60677 mus musculu
8	1148	19.2	1179	ITAE_HUMAN	P38570 homo sapien
9	1146.5	19.1	1189	ITAH_HUMAN	Q3UKK5 homo sapien
10	1131.5	18.9	1167	ITAG_HUMAN	O75578 homo sapien
11	1030.5	17.2	1151	ITAI_HUMAN	P56139 homo sapien
12	1030.5	17.2	1180	ITAI_RAT	P18614 rattus norv
13	1012	16.9	1178	ITAT_MOUSE	O62469 mus musculu
14	1007.5	16.8	1170	ITAT_MOUSE	P53710 bos taurus
15	1007.5	16.8	1181	ITAT_HUMAN	P17301 homo sapien
16	654.5	10.9	1038	ITAT_HUMAN	P13612 homo sapien
17	646.5	10.8	1039	ITAT_MOUSE	Q00651 mus musculu
18	585.5	9.8	1032	ITAT_XENLA	O91687 xenopus lae
19	584.5	9.8	1035	ITAT_HUMAN	Q13797 homo sapien
20	579.5	9.7	1053	ITAT_MOUSE	O62470 mus musculu
21	570.5	9.5	1066	ITAT_CRISP	P17852 cricetidae
22	554	9.3	1049	ITAT_HUMAN	O08648 homo sapien
23	547	9.1	1039	ITAT_HUMAN	P08514 homo sapien
24	540.5	9.0	1066	ITAT_HUMAN	P26006 homo sapien
25	538	9.0	1033	ITAT_MOUSE	O92006 mus musculu
26	535.5	8.9	1053	ITAT_MOUSE	P1668 mus musculu
27	534	8.9	1034	ITAT_CHICK	P26008 gallus gall
28	534	8.9	1050	ITAT_XENLA	O06274 xenopus lae
29	525.5	8.8	1396	ITAT_DROME	P12060 drosophila
30	497	8.3	1044	ITAT_MOUSE	P43406 mus musculu
31	496.5	8.3	1072	ITAT_CHICK	P26077 gallus gall
32	493	8.2	1048	ITAT_HUMAN	P06756 homo sapien
33	490	8.2	1146	ITAT_DROME	Q24247 drosophila

34	486	8.1	1130	ITAT_HUMAN	P23229 homo sapien
35	482.5	8.1	1025	ITAT_HUMAN	P53708 homo sapien
36	477.5	8.0	1044	ITAT_CHICK	P26009 gallus gall
37	455	7.6	1181	ITAT_HUMAN	O13683 homo sapien
38	437.5	7.3	1091	ITAT_MOUSE	O61739 mus musculu
39	431.5	7.2	1226	ITAT_MOUSE	P34446 caenorhabdi
40	430.5	7.2	1179	ITAT_MOUSE	O61738 mus musculu
41	429.5	7.2	1115	ITAT_DROME	O44386 drosophila
42	420.5	7.0	1106	ITAT_RAT	O63258 rattus norv
43	411.5	6.9	1000	ITAT_DROME	O94148 drosophila
44	409.5	6.8	1015	ITAT_DROME	O94744 drosophila
45	394	6.6	1139	ITAT_MOUSE	O03600 caenorhabdi

ALIGNMENTS

RESULT 1

ID	ITAD_HUMAN	STANDARD:	PRT:	1162 AA.
AC	Q13349; Q15575; Q15576;			
DT	16-OCT-2001 (Rel. 40, Created)			
DT	16-OCT-2001 (Rel. 40, Last sequence update)			
DT	28-FEB-2003 (Rel. 41, Last annotation update)			
DE	Integrin alpha-D precursor (Leukointegrin alpha D) (CD11d) (AIB2).			
GN	ITGAD.			
OS	Homo sapiens (Human).			
OC	Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;			
OC	Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.			
OX	NCBI_Taxid=9606;			
RN	(1)			
RP	SEQUENCE FROM N.A.			
RC	TISSUE=Spleen;			
RX	MEDLINE=20187620; PubMed=10722744;			
RA	Noti J.D., Johnson A.K., Dillon J.D.;			
RT	"Structural and functional characterization of the leukocyte integrin gene Cpld. Essential role of Cpl and Sp3."			
RL	J. Biol. Chem. 275:8959-8969(2000).			
RN	(3)			
RP	SEQUENCE OF 467-537; 571-602; 633-666; 788-834 AND 910-1125 FROM N.A.			
RX	MEDLINE=96257236; PubMed=8666289;			
RA	Wong D.A., Davis E.M., LeBeau M., Springer T.A.;			
RT	"Cloning and chromosomal localization of a novel gene encoding a human beta 2-integrin alpha subunit."			
RL	Gene 171:291-294(1996).			
RN	(4)			
RP	INTERACTION WITH VCAM1.			
RX	MEDLINE=99059842; PubMed=9941932;			
RA	Grayson M.H., Van der Vieren M., Sterbinsky S.A., Michael Gallatin W.,			
RT	Hoffman P.A., Staunton D.E., Bochner B.S.;			
RL	"alpha beta 2 integrin is expressed on human eosinophils and functions as an alternative ligand for vascular cell adhesion molecule 1 (VCAM-1)."			
RT	J. Exp. Med. 188:2187-2191(1998).			
RN	(5)			
RP	INTERACTION WITH VCAM1.			
RX	MEDLINE=99370002; PubMed=10438935;			
RA	Van der Vieren M., Crowe D.T., Hoekstra D., Vazquez R., Hoffman P.A.,			
RT	Grayson M.H., Bochner B.S., Gallatin W.M., Staunton D.E.;			
RL	"The leukocyte integrin alpha D beta 2 binds VCAM-1: evidence for a binding interface between I domain and VCAM-1."			
RT	J. Immunol. 163:1984-1990(1999).			
CC	- FUNCTION: INTEGRIN ALPHA-D/BETA-2 IS A RECEPTOR FOR ICAM3 AND VCAM1. MAY PLAY A ROLE IN THE ATHEROSCLEROTIC PROCESS SUCH AS CLEARING LIPOPROTEINS FROM PLAQUES AND IN PHAGOCYTOSIS OF BLOOD-			

BORNE PATHOGENS, PARTICULATE MATTER, AND SENESCENT ERYTHROCYTES FROM THE BLOOD.

-1- SUBUNIT: HETERODIMER OF AN ALPHA AND A BETA SUBUNIT. ALPHA-D ASSOCIATES WITH BETA-2.

-1- SUBCELLULAR LOCATION: Type I membrane protein.

-1- TISSUE SPECIFICITY: EXPRESSED MODERATELY ON MYELOMONOCYTIC CELL LINES AND SUBSETS OF PERIPHERAL BLOOD LEUKOCYTES AND STRONGLY ON TISSUE-SPECIALIZED CELLS, INCLUDING MACROPHAGES FOAM CELLS WITHIN ATHEROSCLEROTIC PLAQUES, AND ON SPLENIC RED PULP MACROPHAGES.

-1- DOMAIN: THE INTEGRIN I-DOMAIN (INSERT) IS A VMFA DOMAIN. INTEGRINS WITH I-DOMAINS DO NOT UNDERGO PROTEASE CLEAVAGE.

-1- SIMILARITY: BELONGS TO THE INTEGRIN ALPHA CHAIN FAMILY.

-1- SIMILARITY: Contains 1 VMFA domain.

-1- SIMILARITY: Contains 7 FG-GAP repeats.

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EMBL: U37028; AAB38547.1; -

DR EMBL: U40274; AAB60634.1; -

DR EMBL: U40275; AAB60635.1; -

DR EMBL: U40276; AAB60636.1; -

DR EMBL: U40277; AAB60637.1; -

DR EMBL: U40279; AAB60638.1; -

DR EMBL: U40278; AAB60638.1; JOINED.

DR HSSP: AF187881; AAF62875.1; -

DR HSSP: P11215; IABX.

DR GeneW: HGNC:6146; ITGAD.

DR MIM: 602453; -

DR GO: GO:0008305; C:integrin complex; TAS.

DR GO: GO:0004895; F:cell adhesion receptor activity; TAS.

DR GO: GO:0016337; P:cell-cell adhesion; NAS.

DR GO: GO:0007160; P:cell-matrix adhesion; NAS.

DR GO: GO:0006955; P:immune response; NAS.

DR InterPro: IPR000413; Integrin_alpha.

DR InterPro: IPR02035; VWF_A.

DR Pfam: PF01839; FG-GAP; 3.

DR Pfam: PF00357; Integrin_A; 1.

DR Pfam: PF00092; Vwa; 1.

DR PRINTS: PRO1185; INTEGRINA.

DR PRINTS: PRO0453; VWFADOMAIN.

DR SMART: SM00337; VWA_1; Int_alpha; 4.

DR PROSITE: PS00242; INTEGRIN_ALPHA; 1.

DR PROSITE: PS0234; VMFA; 1.

KM Integrin; Cell adhesion; Receptor; Glycoprotein; Transmembrane; Magnesium.

KM Signal; Repeat; Calcium;

FT SIGNAL 1 17 POTENTIAL.

FT CHAIN 18 1162 INTEGRIN ALPHA-D.

FT DOMAIN 18 1100 EXTRACELLULAR (POTENTIAL).

FT TRANSMEM 1101 1124 POTENTIAL.

FT DOMAIN 1125 1162 CYTOPLASMIC (POTENTIAL).

FT REPEAT 32 85 FG-GAP 1.

FT REPEAT ? ? FG-GAP 2.

FT DOMAIN 150 332 VMFA.

FT REPEAT 350 400 FG-GAP 3.

FT REPEAT 401 452 FG-GAP 4.

FT REPEAT 454 516 FG-GAP 5.

FT REPEAT 518 576 FG-GAP 6.

FT REPEAT 581 633 FG-GAP 7.

FT CA_BIND 465 473 POTENTIAL.

FT CA_BIND 530 538 POTENTIAL.

FT CA_BIND 593 601 POTENTIAL.

FT SITE 1127 1131 GPPR MOTIF.

FT DISULFID 67 74 BY SIMILARITY.

FT DISULFID 106 124 BY SIMILARITY.

FT DISULFID 655 710 BY SIMILARITY.

FT DISULFID 769 775 BY SIMILARITY.

FT DISULFID 846 861 BY SIMILARITY.

FT DISULFID 994 1018 BY SIMILARITY.

FT DISULFID 1023 1028 BY SIMILARITY.

FT CARBOHYD 59 59 N-LINKED (GLCNAC. . .) (POTENTIAL).

FT CARBOHYD 87 87 N-LINKED (GLCNAC. . .) (POTENTIAL).

FT CARBOHYD 99 99 N-LINKED (GLCNAC. . .) (POTENTIAL).

FT CARBOHYD 391 391 N-LINKED (GLCNAC. . .) (POTENTIAL).

FT CARBOHYD 691 691 N-LINKED (GLCNAC. . .) (POTENTIAL).

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FT CARBOHYD 873 873 N-LINKED (GLCNAC. . .) (POTENTIAL).

FT CARBOHYD 957 957 N-LINKED (GLCNAC. . .) (POTENTIAL).

FT CARBOHYD 1046 1046 N-LINKED (GLCNAC. . .) (POTENTIAL).

FT MISSING 500 500 MISSING (IN REF. 2).

FT COMPLECT 515 518 GHM -> ATP (IN REF. 2).

FT COMPLECT 825 825 L -> V (IN REF. 2).

FT COMPLECT 984 984 V -> A (IN REF. 2).

SQ SEQUENCE 1162 AA; 12685 MM; F296A1A35455D77D CRC64;

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Best Local Similarity 100.0%; Pred. No. 0;

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QY 1 TFGTVLLSVLASYHGFNLDVEEPTIFQEDAGFGSGSVVOFGSSRLVVGAPLEVVANOT 60

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QY 61 GLTVDCAAATGKCOPIPLHIREPAVNMISGLTLAATNSRLACGPTLHRVGENSYSK 120

DB 62 GLTVDCAAATGKCOPIPLHIREPAVNMISGLTLAATNSRLACGPTLHRVGENSYSK 121

QY 121 GSCLLGSREIITQVBDATPECPHOEMDIVPLIDSGSIDQNDFNOMKGFVAVANGCFE 180

DB 122 GSCLLGSREIITQVBDATPECPHOEMDIVPLIDSGSIDQNDFNOMKGFVAVANGCFE 181

QY 181 GTDLFLALMYSNLKTHFTFTQPRTSFGSGLVDPIYVLKGLTFATGILTVYQLFFH 240

DB 182 GTDLFLALMYSNLKTHFTFTQPRTSFGSGLVDPIYVLKGLTFATGILTVYQLFFH 241

QY 241 KNGARKAKKILYITDQKYKDLAYSVDYIPOAEKAGIIRYAIIGVGHAFGPTARQELN 300

DB 242 KNGARKAKKILYITDQKYKDLAYSVDYIPOAEKAGIIRYAIIGVGHAFGPTARQELN 301

QY 301 TISSAPPQDHFVKYDNFAALGSIQOKQKTIYAVEGTQSPASSPQHEMSQBPSTALTM 360

DB 302 TISSAPPQDHFVKYDNFAALGSIQOKQKTIYAVEGTQSPASSPQHEMSQBPSTALTM 361

QY 361 DGLFLGAVGSFMSGGAFLYPPNMSPTFIMSGQENVMDRDSYLGISTELALMKGQNVUL 420

DB 362 DGLFLGAVGSFMSGGAFLYPPNMSPTFIMSGQENVMDRDSYLGISTELALMKGQNVUL 421

QY 421 GAPRYOHTGKAVITFVQSVQWRKKAETGTQISYFGASLCSDVDSDGSTDLILIGAPH 480

DB 422 GAPRYOHTGKAVITFVQSVQWRKKAETGTQISYFGASLCSDVDSDGSTDLILIGAPH 481

QY 481 YVEOTRGQVSVCLPRGQGVQVQCCAVLRGEGCHPMGRFGALTVLGDVNEKLDVAI 540

DB 482 YVEOTRGQVSVCLPRGQGVQVQCCAVLRGEGCHPMGRFGALTVLGDVNEKLDVAI 541

QY 541 GAPQOEKRGAVYLPHASESGISPSHSQRIASSQSLSPRLQYFGOALSGQDILTODGLMD 600

DB 542 GAPQOEKRGAVYLPHASESGISPSHSQRIASSQSLSPRLQYFGOALSGQDILTODGLMD 601

QY 601 LAVAGRGVLLRSLPVLKQVAMRSPVAVAKAVRQWEKRSALFAGDAYTCLTIQKS 660

DB 602 LAVAGRGVLLRSLPVLKQVAMRSPVAVAKAVRQWEKRSALFAGDAYTCLTIQKS 661

QY 661 SLDDQGLDQSSVRFDLADPGLRLSRALFNETKPTLTKRKTLGIGHCTLKLILPDVC 720

DB 662 SLDDQGLDQSSVRFDLADPGLRLSRALFNETKPTLTKRKTLGIGHCTLKLILPDVC 721

QY 721 EDVSPILHLNFTLVREPIPSQNLRFVAVGSOCLFTASLPFKXKCGDGLCEGDLGV 780

XX WO9517412-A1.
 PN
 XX
 PD 29-JUN-1995.
 XX
 XX
 PE 21-DEC-1994; 94WO-US14832.
 XX
 PR 05-AUG-1994; 94US-0286689.
 PR 23-DEC-1993; 93US-0173497.
 XX
 PA (ICOS-) ICOS CORP.
 XX
 XX Gallatin WM, Van Der Vlieten M;
 PI
 XX MPI; 1995-240603/31.
 DR
 CR N-PSDB; AAQ91712.
 XX
 XX Alpha sub-unit polypeptide of human beta 2 integrin - used to
 PT identify potential antiinflammatory agents, for the treatment of
 PT graft arteriosclerosis, inflammatory bowel disease, asthma, etc.
 XX
 PS C:aim 7; Page 82-87; 172pp; English.
 CC
 CC A probe based on a partial cDNA clone (given in AAQ91727) of canine
 CC alpha-1m1 was used to screen a human spleen cDNA library to identify
 CC clone 19A2 encoding the beta-1 integrin alpha-subunit, alpha-d.
 CC The cDNA was manipulated to allow expression of recombinant alpha-d
 CC subunit in COS and CHO cells.
 XX
 XX Sequence 1161 AA;
 XQ

Query Match	100.0%;	Score 5987;	DB 16;	Length 1161;
Best Local Similarity	100.0%;	Pred. No. 0;		
Matches 1161;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;

QY	1	FEQVTLILSVLASHYGFNLDVEEPTITPOEDAGFGQSVYVQFGSRLVYGAPLEVVAANO	60
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QY	61	GRLYDCAATGWCQPTPLHIREAVNMSGLTLAATSTNGSRLACGPTLHRVCGENSYSK	120
Db	61	GRLYDCAATGWCQPTPLHIREAVNMSGLTLAATSTNGSRLACGPTLHRVCGENSYSK	120
QY	121	GSCLLGSRWEIITQVVPDTPBCPHQEMDITVLIGSGSIDONDTRQKGFQVAMGQFE	180
Db	121	GSCLLGSRWEIITQVVPDTPBCPHQEMDITVLIGSGSIDONDTRQKGFQVAMGQFE	180
QY	181	GTDTLFALMOYSNLKIHFTTFQFRTSPQOGLVPIVQKGLTFTATGILVVTOLPHH	240
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GenCore version 5.1.6
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(without alignments)
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Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

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Post-processing: Minimum Match 0%
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Pred. No. is the number of results predicted by chance to have a
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and is derived by analysis of the total score distribution.

SUMMARIES

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8	4364.5	72.9	1161	11	US-09-891-943-37
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21	3417	57.1	1137	11	US-09-902-481A-6	Sequence 6, Appl1
22	3411	57.0	1137	11	US-09-902-481A-5	Sequence 5, Appl1
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ALIGNMENTS

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; Sequence 2, Application US/09350259
; Patent No. US20020062008A1
; GENERAL INFORMATION:
; APPLICANT: Gallatin, Michael W.
; TITLE OF INVENTION: No. US20020062008A1 Human 2
; FILE REFERENCE: 27866/35004
; CURRENT APPLICATION NUMBER: US/09/350, 259
; EARLIER FILING DATE: 1999-07-08
; EARLIER APPLICATION NUMBER: 09/193, 043
; EARLIER FILING DATE: 1998-11-16
; EARLIER APPLICATION NUMBER: 08/173, 497
; EARLIER FILING DATE: 1993-12-23
; EARLIER APPLICATION NUMBER: 08/286, 889
; EARLIER FILING DATE: 1994-08-05
; EARLIER APPLICATION NUMBER: 08/362, 652
; EARLIER FILING DATE: 1994-12-21
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; EARLIER FILING DATE: 1997-10-03
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; ORGANISM: Homo sapiens
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; TITLE OF INVENTION: No. US2003007278A1 Human 2
; FILE REFERENCE: 2786/35004
; CURRENT APPLICATION NUMBER: US/09/891,943
; CURRENT FILING DATE: 2001-06-26
; PRIOR APPLICATION NUMBER: 09/193,043
; PRIOR FILING DATE: 1998-11-16
; PRIOR APPLICATION NUMBER: 08/286,889
; PRIOR FILING DATE: 1994-08-05
; PRIOR APPLICATION NUMBER: 08/362,652
; PRIOR FILING DATE: 1994-12-21
; PRIOR APPLICATION NUMBER: 09/943,363
; NUMBER OF SEQ ID NOS: 114
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US-09-891-943-2
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Copyright (c) 1993 - 2003 CompuGen Ltd.

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6	5981	99.9	1161	1 US-08-362-652-2	Sequence 2, Appl
7	5981	99.9	1161	2 US-08-605-672-2	Sequence 2, Appl
8	5981	99.9	1161	2 US-08-482-293A-2	Sequence 2, Appl
9	5981	99.9	1161	2 US-08-943-363-2	Sequence 2, Appl
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19	4397.5	73.5	1161	1 US-08-362-652-55	Sequence 55, Appl
20	4397.5	73.5	1161	2 US-08-605-672-55	Sequence 55, Appl
21	4397.5	73.5	1161	2 US-08-482-293A-55	Sequence 55, Appl
22	4397.5	73.5	1161	2 US-08-943-363-55	Sequence 55, Appl
23	4364.5	72.9	1151	1 US-08-286-889-37	Sequence 37, Appl
24	4364.5	72.9	1151	1 US-08-485-618-37	Sequence 37, Appl
25	4364.5	72.9	1151	1 US-08-362-652-37	Sequence 37, Appl
26	4364.5	72.9	1151	1 US-08-605-672-37	Sequence 37, Appl
27	4364.5	72.9	1151	2 US-08-482-293A-37	Sequence 37, Appl

28	4364.5	72.9	1151	2 US-08-943-363-37	Sequence 37, Appl
29	4364.5	72.9	1151	3 US-09-193-043-37	Sequence 37, Appl
30	4364.5	72.9	1151	4 US-09-688-307A-37	Sequence 37, Appl
31	4305.5	71.9	1161	1 US-08-485-618-53	Sequence 53, Appl
32	4305.5	71.9	1161	1 US-08-362-652-53	Sequence 53, Appl
33	4305.5	71.9	1161	2 US-08-605-672-53	Sequence 53, Appl
34	4305.5	71.9	1161	2 US-08-482-293A-53	Sequence 53, Appl
35	4305.5	71.9	1161	2 US-08-943-363-53	Sequence 53, Appl
36	4305.5	71.9	1161	3 US-09-193-043-53	Sequence 53, Appl
37	4305.5	71.9	1161	4 US-09-688-307A-53	Sequence 53, Appl
38	4278.5	71.5	1155	1 US-08-286-889-46	Sequence 46, Appl
39	4278.5	71.5	1155	1 US-08-485-618-46	Sequence 46, Appl
40	4278.5	71.5	1155	1 US-08-362-652-46	Sequence 46, Appl
41	4278.5	71.5	1155	2 US-08-605-672-46	Sequence 46, Appl
42	4278.5	71.5	1155	2 US-08-482-293A-46	Sequence 46, Appl
43	4278.5	71.5	1155	2 US-08-943-363-46	Sequence 46, Appl
44	4278.5	71.5	1155	2 US-09-193-043-46	Sequence 46, Appl
45	4278.5	71.5	1155	4 US-09-688-307A-46	Sequence 46, Appl

ALIGNMENTS

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RESULT 1
US-09-193-043-2
; Sequence 2, Application US/09193043
; Patent No. 6251395
; GENERAL INFORMATION:
; APPLICANT: Gallatin, Michael W.
; TITLE OF INVENTION: No. 6251395el Human 2
; FILE REFERENCE: 27866/35004
; CURRENT APPLICATION NUMBER: US/09/193, 043
; EARLIER FILING DATE: 1998-11-16
; EARLIER APPLICATION NUMBER: 08/173,497
; EARLIER FILING DATE: 1993-12-23
; EARLIER APPLICATION NUMBER: 08/286,889
; EARLIER FILING DATE: 1994-08-05
; EARLIER APPLICATION NUMBER: 08/162,652
; EARLIER FILING DATE: 1994-12-21
; EARLIER APPLICATION NUMBER: 08/943,363
; EARLIER FILING DATE: 1997-10-03
; NUMBER OF SEQ ID NOS: 114
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
; LENGTH: 1161
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-193-043-2
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Best Local Similarity 100.0%; Pred. No. 0;
Matches 1161; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
1 TFGTVLLISVLASYHGPNLDVEPTTFEDKAGRGQSVVQFGSHLVGAPLEVVAANOT 60
1 TFGTVLLISVLASYHGPNLDVEPTTFEDKAGRGQSVVQFGSHLVGAPLEVVAANOT 60
61 GGLYCAATGCGCPPIPHIRPEAVNMSLGLTLAATGSRLLACGPTLHRVCGENSYK 120
61 GGLYCAATGCGCPPIPHIRPEAVNMSLGLTLAATGSRLLACGPTLHRVCGENSYK 120
61 GGLYCAATGCGCPPIPHIRPEAVNMSLGLTLAATGSRLLACGPTLHRVCGENSYK 120
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121 GSCLLLSRWEIQTVPDPTCECPHQEMDIVFLIDSGSISIDQNDENQKGFVQAVYQGE 180
181 GDTLFAIMQVSNLKIHTFTQPTSTSCQSLVDPIVQLGTLTAAIGLITVYQLPHH 240
181 GDTLFAIMQVSNLKIHTFTQPTSTSCQSLVDPIVQLGTLTAAIGLITVYQLPHH 240
241 KKGAKSAKKLIVITTDQKXKDPLEYSDVIPAEEKAGIRYAIQVGAFOGPTARQELN 300
241 KKGAKSAKKLIVITTDQKXKDPLEYSDVIPAEEKAGIRYAIQVGAFOGPTARQELN 300
241 KKGAKSAKKLIVITTDQKXKDPLEYSDVIPAEEKAGIRYAIQVGAFOGPTARQELN 300

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QY	301	TISSAPQDHFVKDNEFAALGS	IOKLOOEKIYAEGTQSRASSSFQEHMSQEGSTALTM	360
Dp	301	TISSAPQDHFVKDNEFAALGS	IOKLOOEKIYAEGTQSRASSSFQEHMSQEGSTALTM	360
QY	361	DGLFLGAVGSFWSGGAFLYP	PNNSPTEFINNSQENVMDSDYIGSTELAIWKQVNLVL	420
Dp	361	DGLFLGAVGSFWSGGAFLYP	PNNSPTEFINNSQENVMDSDYIGSTELAIWKQVNLVL	420
QY	421	GAPFYQHTGKAVITQVSRQMR	KAETVGTQIGSYFGASLCSYVVDSDGSTDLLIGAPH	480
Dp	421	GAPFYQHTGKAVITQVSRQMR	KAETVGTQIGSYFGASLCSYVVDSDGSTDLLIGAPH	480
QY	481	YVEGTGRGQVSVCELP	PGQORVQWOCDAVLREBQSHPMGRFGAALTVLGDVNEDKLIDVAI	540
Dp	481	YVEGTGRGQVSVCELP	PGQORVQWOCDAVLREBQSHPMGRFGAALTVLGDVNEDKLIDVAI	540
QY	541	GAPBEOENRGAVVYLPHGAS	ESGISPSHSQRIASSQSLSPRLOYFQOALSQGDLLQDGLMD	600
Dp	541	GAPBEOENRGAVVYLPHGAS	ESGISPSHSQRIASSQSLSPRLOYFQOALSQGDLLQDGLMD	600
QY	601	LAVARGQVLLLRSLPLYLK	QVNAARFSFVEYAKKAVYRQWEKPSALEAGATVCLTIQKS	660
Dp	601	LAVARGQVLLLRSLPLYLK	QVNAARFSFVEYAKKAVYRQWEKPSALEAGATVCLTIQKS	660
QY	661	SLDOLGTOSSVRDMLADP	GRLLTSRAIPNFTKXNPLTRKXTLGLSHICETLKLILPDCV	720
Dp	661	SLDOLGTOSSVRDMLADP	GRLLTSRAIPNFTKXNPLTRKXTLGLSHICETLKLILPDCV	720
QY	721	EDVVSPIILHNFELVREB	IPSPQNLRFVLAVGSQDLFTASLPPEKXCGQDGLCEBLAGV	780
Dp	721	EDVVSPIILHNFELVREB	IPSPQNLRFVLAVGSQDLFTASLPPEKXCGQDGLCEBLAGV	780
QY	781	TLSSSGJOTLTVGSSLE	LANVLYTWNAGEBSYGIYVSLYTAGISHRRVSGAQOQPHOSA	840
Dp	781	TLSSSGJOTLTVGSSLE	LANVLYTWNAGEBSYGIYVSLYTAGISHRRVSGAQOQPHOSA	840
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Dp	841	LRLACEYPTDEDEGLSR	SGCVNHPHIFEGSNGTFIYFDVSYKATLGDRLMLBASASE	900
QY	901	NNKASSSGAATQLEL	PLVKYAYYTMISROEBSTKTFNFATSDKKOKKEAHRVYVNUISOR	960
Dp	901	NNKASSSGAATQLEL	PLVKYAYYTMISROEBSTKTFNFATSDKKOKKEAHRVYVNUISOR	960
QY	961	DLAISINFMVVLNLNG	VAMVDMWEAPQSLPCVSEKRPQSHDFTLQISSPMLDCSIA	1020
Dp	961	DLAISINFMVVLNLNG	VAMVDMWEAPQSLPCVSEKRPQSHDFTLQISSPMLDCSIA	1020
QY	1021	DCLQPRCDVPSFS	VOEELDFTLKGNLSGWVRETLQKVKLVVSAEITFTDTSYVSQLPQ	1080
Dp	1021	DCLQPRCDVPSFS	VOEELDFTLKGNLSGWVRETLQKVKLVVSAEITFTDTSYVSQLPQ	1080
QY	1081	EAFMRQAEWMLVEEDE	VYNAIPIIMSSVGALLLALITATLYLGFGRKHYKMLDEKP	1140
Dp	1081	EAFMRQAEWMLVEEDE	VYNAIPIIMSSVGALLLALITATLYLGFGRKHYKMLDEKP	1140
QY	1141	EDTATFSGDPS	SCVAPNVPIS	1161
Dp	1141	EDTATFSGDPS	SCVAPNVPIS	1161

RESULT
US-09-688-307A-2
Sequence 2, Application US/09688307A
Patent No. 6432406
GENERAL INFORMATION:
APPLICANT: Galatin, Michael W.
APPLICANT: Van der Vlieten, Monica
TITLE OF INVENTION: No. 6432406el Human Beta-2
FILE REFERENCE: 27866/36646
CURRENT APPLICATION NUMBER: US/09/688, 307A
CURRENT FILING DATE: 2000-10-13

	Query Match	Best Local Similarity	Score	DB	Length	Matches	Indels	Gaps
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DB	1	100.0%	5987	4	1161			
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DB	61	100.0%	5987	4	1161			
QY	121	100.0%	5987	4	1161			
DB	121	100.0%	5987	4	1161			
QY	181	100.0%	5987	4	1161			
DB	181	100.0%	5987	4	1161			
QY	241	100.0%	5987	4	1161			
DB	241	100.0%	5987	4	1161			
QY	301	100.0%	5987	4	1161			
DB	301	100.0%	5987	4	1161			
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QY	481	100.0%	5987	4	1161			
DB	481	100.0%	5987	4	1161			
QY	541	100.0%	5987	4	1161			
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QY	721	100.0%	5987	4	1161			
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